

AMENDMENTS TO THE CLAIMS:



Please amend Claims 22, 25, 28 through 31, 34, 37 through 39, 42, and 45, and

add Claims 46 and 47 as follows:

1 - 21. (Canceled)

22. (Currently Amended) A communication system comprising:

a first apparatus in a wireless network;

a second apparatus in a wired network; and

a communication apparatus that includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit,

wherein the wireless communication unit ~~is capable of communicating with the first apparatus through the wireless network and receiving~~ receives first encoded video data encoded by a first video encoding system ~~and transmitted from the first apparatus through the wireless network,~~

wherein the decoding unit ~~is adapted to decode~~ decodes the first encoded video data received by the wireless communication unit to provide decoded video data,

wherein the encoding unit ~~is adapted to encode~~ encodes the decoded video data ~~from the decoding unit~~ into second encoded video data using a second video encoding system, ~~and~~

wherein the wired communication unit ~~is capable of communicating with the second apparatus through the wired network and transmitting~~ transmits the second encoded video data to the second apparatus through the wired network, and

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

23. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

24. (Previously Presented) A communication system according to claim 22, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

25. (Currently Amended) A communication apparatus comprising:  
a wireless communication unit ~~capable of communicating with a first apparatus through a wireless network and receiving~~ which receives first encoded video data encoded by a first video encoding system ~~and transmitted~~ from the first apparatus through a wireless network;

a decoding unit ~~adapted to decode~~ which decodes the first encoded video data received by the wireless communication unit to provide decoded video data;

an encoding unit ~~adapted to encode~~ which encodes the decoded video data ~~from the decoding unit~~ into second encoded video data using a second video encoding system; and

a wired communication unit ~~capable of communicating with a first apparatus through a wired network and receiving~~ which transmits the second encoded video data to the second apparatus through a wired network.

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

26. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

27. (Previously Presented) A communication apparatus according to claim 25, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

28. (Currently Amended) A ~~communication~~ method for controlling a communication apparatus, the communication apparatus including (a) a wireless communication unit ~~capable of communicating~~ which communicates with a first apparatus through a wireless network and (b) a wired communication unit ~~capable of communicating~~ which communicates with a second apparatus through a wired network, the ~~communication~~ method comprising the steps of:

receiving first encoded video data encoded by a first video encoding system from the first apparatus using the wireless communication unit; ~~wherein the first encoded video data is encoded by a first video encoding system and transmitted from the first apparatus;~~

decoding the first encoded video data received in the receiving step to provide decoded video data;

encoding the decoded video data ~~provided by the decoding step~~ into second encoded video data using a second video encoding system; and

transmitting the second encoded video data to the second apparatus using the wired communication unit,

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

29. (Currently Amended) A ~~communication~~ method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to record the second encoded video data on a recording medium.

30. (Currently Amended) A ~~communication~~ method according to claim 28, wherein the first apparatus is a video camera, and the second apparatus is an apparatus adapted to display the second encoded video data.

31. (Currently Amended) A communication system comprising:

- a first apparatus in a wireless network;
- a second apparatus in a wired network; and
- a communication apparatus that includes a wireless communication unit, a decoding unit, an encoding unit, and a wired communication unit,

wherein the wired communication unit is ~~capable of communicating with the second apparatus through the wired network and receiving~~ receives second encoded video data encoded by a second video encoding system ~~and transmitted~~ from the second apparatus through the wireless network,

wherein the decoding unit is ~~adapted to decode~~ decodes the second encoded video data received by the wired communication unit to provide decoded video data,

wherein the encoding unit is ~~adapted to encode~~ encodes the decoded video data ~~from the decoding unit~~ into first encoded video data using a first video encoding system, and

wherein the wireless communication unit ~~is capable of communicating with the first apparatus through the wireless network and transmitting~~ transmits the first encoded video data to the first apparatus through the wired network, and

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

32. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

33. (Previously Presented) A communication system according to claim 31, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

34. (Currently Amended) A communication apparatus comprising:  
a wired communication unit ~~capable of communicating with a second apparatus through a wired network and receiving~~ which receives second encoded video data encoded

by a second video encoding system ~~and transmitted~~ from the second apparatus through a wireless network;

a decoding unit ~~adapted to decode~~ which decodes the second encoded video data received by the wired communication unit to provide decoded video data;

an encoding unit ~~adapted to encode~~ which encodes the decoded video data ~~from the decoding unit~~ into first encoded video data using a first video encoding system; and

a wireless communication unit ~~capable of communicating with a first apparatus through a wireless network and transmitting~~ which transmits the first encoded video data to the first apparatus through a wired network.

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

35. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

36. (Previously Presented) A communication apparatus according to claim 34, wherein the first apparatus is an apparatus adapted to display the first encoded video data,

and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

37. (Currently Amended) A ~~communication~~ method for a communication apparatus, the communication apparatus including (a) a wireless communication unit ~~capable of communicating which communicates~~ with a first apparatus through a wireless network and (b) a wired communication unit ~~capable of communicating which communicates~~ with a second apparatus through a wired network, the ~~communication~~ method comprising the steps of:

receiving second encoded video data encoded by a second video encoding system from the second apparatus using the wired communication unit, ~~wherein the second encoded video data is encoded by a second video encoding system and transmitted from the second apparatus;~~

decoding the second encoded video data received in the receiving step to provide decoded video data;

encoding the decoded video data ~~provided by the decoding step~~ into first encoded video data using a first video encoding system; and

transmitting the first encoded video data to the first apparatus using the wireless communication unit,

wherein the first video encoding system is suitable for a first communication protocol used between the first apparatus and the communication apparatus, and the second



video encoding system is suitable for a second communication protocol used between the second apparatus and the communication apparatus.

38. (Currently Amended) A ~~communication~~ method according to claim 37, wherein the first apparatus is an apparatus adapted to record the first encoded video data on a recording medium, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

39. (Currently Amended) A ~~communication~~ method according to claim 37, wherein the first apparatus is an apparatus adapted to display the first encoded video data, and the second apparatus is an apparatus adapted to reproduce the second encoded video data from a recording medium.

40. (Previously Presented) A communication system according to claim 22, wherein the wired communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

41. (Previously Presented) A communication apparatus according to claim 25, wherein the wired communication unit is adapted to transmit the second encoded video data using an isochronous transfer.

42. (Currently Amended) A ~~communication~~ method according to claim 28, wherein ~~the transmitting step transmits~~ the second encoded video data is transmitted using an isochronous transfer.

43. (Currently Amended) A communication system according to claim 31, wherein the wired communication unit is adapted to receive the second encoded video data using an isochronous transfer.

44. (Previously Presented) A communication apparatus according to claim 34, wherein the wired communication unit is adapted to receive the second encoded video data using an isochronous transfer.

45. (Currently Amended) A ~~communication~~ method according to claim 37, wherein ~~the receiving step receives~~ the second encoded video data is received using an isochronous transfer.

46. (New) A communication system according to claim 22, wherein the first video encoding system uses H.263 and the second video encoding system uses MPEG encoding.

47. (New) A communication system according to claim 46, wherein the MPEG encoding is MPEG1 encoding.